

Junctions 9							
ARCADY 9 - Roundabout Module							
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Filename: 422.065540.00001-Roundabout Site Access-V2.j9

Path: Y:\Projects\250000\422.065540.00001 - Bath Road, Twyford Post-planning support\Transport Planning\Technical\A - Deliverable\Modelling

Report generation date: 15/12/2025 12:56:55

»2026 + Dev, AM

»2026 + Dev, PM

»2036 + Dev, AM

»2036 + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	LOS	Queue (Veh)	Delay (s)	RFC	LOS
2026 + Dev								
A - A4 (E)	1.3	4.80	0.56	A	3.4	9.22	0.78	A
B - Croudace Access	0.1	4.07	0.09	A	0.0	4.98	0.04	A
C - A4 (W)	2.1	6.53	0.68	A	1.9	6.06	0.66	A
D - Site Access	0.2	8.58	0.20	A	0.1	6.80	0.07	A
2036 + Dev								
A - A4 (E)	1.4	5.05	0.58	A	6.5	16.11	0.87	C
B - Croudace Access	0.1	4.19	0.09	A	0.1	5.89	0.05	A
C - A4 (W)	2.8	8.00	0.74	A	2.0	6.30	0.67	A
D - Site Access	0.3	9.80	0.22	A	0.1	6.96	0.07	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	
Location	
Site number	
Date	11/07/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Alice.Todd
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D1	Dev (2026)	AM	ONE HOUR	07:45	09:15	15			
D2	Dev (2026)	PM	ONE HOUR	16:45	18:15	15			
D3	Dev (2036)	AM	ONE HOUR	07:45	09:15	15			
D4	Dev (2036)	PM	ONE HOUR	16:45	18:15	15			
D5	2026	AM	ONE HOUR	07:45	09:15	15			
D6	2026	PM	ONE HOUR	16:45	18:15	15			
D7	2036	AM	ONE HOUR	07:45	09:15	15			
D8	2036	PM	ONE HOUR	16:45	18:15	15			
D9	2026 + Dev	AM	ONE HOUR	07:45	09:15	15	✓	Simple	D1+D5
D10	2026 + Dev	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D2+D6
D11	2036 + Dev	AM	ONE HOUR	07:45	09:15	15	✓	Simple	D3+D7
D12	2036 + Dev	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D4+D8

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2026 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A4/Site Access	Standard Roundabout		A, B, C, D	5.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
A	A4 (E)	
B	Croudace Access	
C	A4 (W)	
D	Site Access	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
A - A4 (E)	3.40	7.20	22.3	20.4	35.0	28.0	
B - Croudace Access	2.70	6.50	21.3	20.0	35.0	15.5	
C - A4 (W)	3.50	7.60	19.1	20.0	35.0	29.0	
D - Site Access	3.70	4.50	4.2	10.0	35.0	44.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - A4 (E)	0.672	1789
B - Croudace Access	0.653	1629
C - A4 (W)	0.674	1803
D - Site Access	0.510	1148

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D9	2026 + Dev	AM	ONE HOUR	07:45	09:15	15	✓	Simple	D1+D5

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4 (E)		ONE HOUR	✓	875	100.000
B - Croudace Access		ONE HOUR	✓	77	100.000
C - A4 (W)		ONE HOUR	✓	1082	100.000
D - Site Access		ONE HOUR	✓	94	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
From	A - A4 (E)	0	18	840	17
	B - Croudace Access	43	0	34	0
	C - A4 (W)	1046	14	0	22
	D - Site Access	49	0	45	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
From	A - A4 (E)	0	0	2	0
	B - Croudace Access	0	0	0	0
	C - A4 (W)	1	0	0	0
	D - Site Access	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4 (E)	0.56	4.80	1.3	A	803	1204
B - Croudace Access	0.09	4.07	0.1	A	71	106
C - A4 (W)	0.68	6.53	2.1	A	993	1489
D - Site Access	0.20	8.58	0.2	A	86	129

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	659	165	44	1727	0.381	656	853	0.0	0.6	3.356	A
B - Croudace Access	58	14	676	1180	0.049	58	24	0.0	0.1	3.209	A
C - A4 (W)	815	204	45	1756	0.464	811	689	0.0	0.9	3.796	A
D - Site Access	71	18	827	722	0.098	70	29	0.0	0.1	5.518	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	787	197	53	1721	0.457	786	1021	0.6	0.8	3.845	A
B - Croudace Access	69	17	810	1091	0.063	69	29	0.1	0.1	3.523	A
C - A4 (W)	973	243	54	1750	0.556	971	825	0.9	1.2	4.612	A
D - Site Access	85	21	990	638	0.132	84	35	0.1	0.2	6.496	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	963	241	65	1713	0.562	962	1249	0.8	1.3	4.778	A
B - Croudace Access	85	21	991	970	0.087	85	35	0.1	0.1	4.065	A
C - A4 (W)	1191	298	66	1742	0.684	1188	1010	1.2	2.1	6.454	A
D - Site Access	103	26	1211	525	0.197	103	43	0.2	0.2	8.533	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	963	241	65	1713	0.562	963	1253	1.3	1.3	4.800	A
B - Croudace Access	85	21	993	969	0.087	85	35	0.1	0.1	4.070	A
C - A4 (W)	1191	298	66	1742	0.684	1191	1012	2.1	2.1	6.534	A
D - Site Access	103	26	1214	523	0.198	103	43	0.2	0.2	8.582	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	787	197	53	1721	0.457	788	1027	1.3	0.8	3.868	A
B - Croudace Access	69	17	813	1089	0.064	69	29	0.1	0.1	3.533	A
C - A4 (W)	973	243	54	1750	0.556	976	828	2.1	1.3	4.674	A
D - Site Access	85	21	995	636	0.133	85	35	0.2	0.2	6.538	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	659	165	45	1727	0.382	660	858	0.8	0.6	3.375	A
B - Croudace Access	58	14	680	1177	0.049	58	24	0.1	0.1	3.216	A
C - A4 (W)	815	204	45	1756	0.464	816	693	1.3	0.9	3.839	A
D - Site Access	71	18	832	720	0.098	71	29	0.2	0.1	5.550	A

2026 + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A4/Site Access	Standard Roundabout		A, B, C, D	7.72	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D10	2026 + Dev	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D2+D6

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4 (E)		ONE HOUR	✓	1228	100.000
B - Croudace Access		ONE HOUR	✓	30	100.000
C - A4 (W)		ONE HOUR	✓	1043	100.000
D - Site Access		ONE HOUR	✓	37	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
From	A - A4 (E)	0	46	1138	44
	B - Croudace Access	16	0	14	0
	C - A4 (W)	983	21	0	39
	D - Site Access	15	0	22	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
From	A - A4 (E)	0	0	1	0
	B - Croudace Access	0	0	0	0
	C - A4 (W)	1	0	0	0
	D - Site Access	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4 (E)	0.78	9.22	3.4	A	1127	1690
B - Croudace Access	0.04	4.98	0.0	A	28	41
C - A4 (W)	0.66	6.06	1.9	A	957	1436
D - Site Access	0.07	6.80	0.1	A	34	51

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	925	231	32	1752	0.528	920	760	0.0	1.1	4.308	A
B - Croudace Access	23	6	902	1035	0.022	22	50	0.0	0.0	3.555	A
C - A4 (W)	785	196	45	1756	0.447	782	880	0.0	0.8	3.682	A
D - Site Access	28	7	765	754	0.037	28	62	0.0	0.0	4.953	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1104	276	39	1747	0.632	1102	910	1.1	1.7	5.555	A
B - Croudace Access	27	7	1080	918	0.029	27	60	0.0	0.0	4.041	A
C - A4 (W)	938	234	54	1751	0.536	936	1053	0.8	1.1	4.414	A
D - Site Access	33	8	916	677	0.049	33	74	0.0	0.1	5.595	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1352	338	47	1742	0.776	1345	1114	1.7	3.3	8.943	A
B - Croudace Access	33	8	1319	760	0.043	33	73	0.0	0.0	4.951	A
C - A4 (W)	1148	287	66	1743	0.659	1145	1286	1.1	1.9	5.998	A
D - Site Access	41	10	1120	571	0.071	41	91	0.1	0.1	6.783	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1352	338	47	1741	0.776	1352	1116	3.3	3.4	9.221	A
B - Croudace Access	33	8	1325	756	0.044	33	74	0.0	0.0	4.979	A
C - A4 (W)	1148	287	66	1742	0.659	1148	1292	1.9	1.9	6.056	A
D - Site Access	41	10	1123	570	0.071	41	91	0.1	0.1	6.802	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1104	276	39	1747	0.632	1111	914	3.4	1.7	5.713	A
B - Croudace Access	27	7	1089	912	0.030	27	61	0.0	0.0	4.068	A
C - A4 (W)	938	234	54	1750	0.536	941	1062	1.9	1.2	4.463	A
D - Site Access	33	8	920	674	0.049	33	75	0.1	0.1	5.616	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	925	231	32	1751	0.528	927	765	1.7	1.1	4.381	A
B - Croudace Access	23	6	909	1030	0.022	23	51	0.0	0.0	3.571	A
C - A4 (W)	785	196	45	1756	0.447	787	886	1.2	0.8	3.717	A
D - Site Access	28	7	769	752	0.037	28	63	0.1	0.0	4.974	A

2036 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A4/Site Access	Standard Roundabout		A, B, C, D	6.75	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D11	2036 + Dev	AM	ONE HOUR	07:45	09:15	15	✓	Simple	D3+D7

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4 (E)		ONE HOUR	✓	909	100.000
B - Croudace Access		ONE HOUR	✓	77	100.000
C - A4 (W)		ONE HOUR	✓	1174	100.000
D - Site Access		ONE HOUR	✓	94	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
From	A - A4 (E)	0	18	874
	B - Croudace Access	43	0	34
	C - A4 (W)	1138	14	0
	D - Site Access	49	0	45

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
From	A - A4 (E)	0	0	2
	B - Croudace Access	0	0	0
	C - A4 (W)	1	0	0
	D - Site Access	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4 (E)	0.58	5.05	1.4	A	834	1251
B - Croudace Access	0.09	4.19	0.1	A	71	106
C - A4 (W)	0.74	8.00	2.8	A	1077	1616
D - Site Access	0.22	9.80	0.3	A	86	129

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	684	171	44	1727	0.396	682	922	0.0	0.7	3.436	A
B - Croudace Access	58	14	702	1163	0.050	58	24	0.0	0.1	3.258	A
C - A4 (W)	884	221	45	1756	0.503	880	715	0.0	1.0	4.090	A
D - Site Access	71	18	896	687	0.103	70	29	0.0	0.1	5.835	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	817	204	53	1721	0.475	816	1104	0.7	0.9	3.974	A
B - Croudace Access	69	17	840	1071	0.065	69	29	0.1	0.1	3.594	A
C - A4 (W)	1055	264	54	1750	0.603	1053	856	1.0	1.5	5.153	A
D - Site Access	85	21	1072	596	0.142	84	35	0.1	0.2	7.030	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1001	250	65	1713	0.584	999	1349	0.9	1.4	5.024	A
B - Croudace Access	85	21	1028	946	0.090	85	35	0.1	0.1	4.181	A
C - A4 (W)	1293	323	66	1742	0.742	1287	1047	1.5	2.8	7.831	A
D - Site Access	103	26	1311	473	0.219	103	43	0.2	0.3	9.709	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1001	250	65	1713	0.584	1001	1354	1.4	1.4	5.053	A
B - Croudace Access	85	21	1031	944	0.090	85	35	0.1	0.1	4.188	A
C - A4 (W)	1293	323	66	1742	0.742	1292	1049	2.8	2.8	8.001	A
D - Site Access	103	26	1316	471	0.220	103	43	0.3	0.3	9.799	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	817	204	53	1721	0.475	819	1111	1.4	0.9	4.000	A
B - Croudace Access	69	17	844	1068	0.065	69	29	0.1	0.1	3.605	A
C - A4 (W)	1055	264	54	1750	0.603	1061	859	2.8	1.5	5.260	A
D - Site Access	85	21	1079	592	0.143	85	35	0.3	0.2	7.100	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	684	171	45	1727	0.396	685	928	0.9	0.7	3.462	A
B - Croudace Access	58	14	706	1160	0.050	58	24	0.1	0.1	3.266	A
C - A4 (W)	884	221	45	1756	0.503	886	719	1.5	1.0	4.149	A
D - Site Access	71	18	902	684	0.104	71	29	0.2	0.1	5.878	A

2036 + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A4/Site Access	Standard Roundabout		A, B, C, D	11.70	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically	Relationship type	Relationship
D12	2036 + Dev	PM	ONE HOUR	16:45	18:15	15	✓	Simple	D4+D8

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4 (E)		ONE HOUR	✓	1383	100.000
B - Croudace Access		ONE HOUR	✓	30	100.000
C - A4 (W)		ONE HOUR	✓	1064	100.000
D - Site Access		ONE HOUR	✓	37	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
	A - A4 (E)	0	46	1293	44
	B - Croudace Access	16	0	14	0
	C - A4 (W)	1004	21	0	39
	D - Site Access	15	0	22	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - A4 (E)	B - Croudace Access	C - A4 (W)	D - Site Access
	A - A4 (E)	0	0	1	0
	B - Croudace Access	0	0	0	0
	C - A4 (W)	1	0	0	0
	D - Site Access	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4 (E)	0.87	16.11	6.5	C	1269	1904
B - Croudace Access	0.05	5.89	0.1	A	28	41
C - A4 (W)	0.67	6.30	2.0	A	976	1465
D - Site Access	0.07	6.96	0.1	A	34	51

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1041	260	32	1751	0.595	1035	776	0.0	1.4	4.989	A
B - Croudace Access	23	6	1017	959	0.024	22	50	0.0	0.0	3.845	A
C - A4 (W)	801	200	45	1756	0.456	798	995	0.0	0.8	3.743	A
D - Site Access	28	7	780	746	0.037	28	62	0.0	0.0	5.009	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1243	311	39	1747	0.712	1239	929	1.4	2.4	7.038	A
B - Croudace Access	27	7	1218	827	0.033	27	60	0.0	0.0	4.501	A
C - A4 (W)	957	239	54	1751	0.546	955	1191	0.8	1.2	4.517	A
D - Site Access	33	8	934	667	0.050	33	74	0.0	0.1	5.680	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1523	381	47	1741	0.874	1508	1136	2.4	6.2	14.534	B
B - Croudace Access	33	8	1482	653	0.051	33	73	0.0	0.1	5.806	A
C - A4 (W)	1171	293	66	1743	0.672	1168	1449	1.2	2.0	6.229	A
D - Site Access	41	10	1143	560	0.073	41	91	0.1	0.1	6.934	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1523	381	47	1741	0.874	1521	1139	6.2	6.5	16.108	C
B - Croudace Access	33	8	1495	644	0.051	33	74	0.1	0.1	5.889	A
C - A4 (W)	1171	293	66	1742	0.672	1171	1462	2.0	2.0	6.302	A
D - Site Access	41	10	1146	558	0.073	41	91	0.1	0.1	6.958	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1243	311	39	1747	0.712	1259	934	6.5	2.5	7.608	A
B - Croudace Access	27	7	1237	814	0.033	27	61	0.1	0.0	4.574	A
C - A4 (W)	957	239	54	1750	0.547	960	1210	2.0	1.2	4.573	A
D - Site Access	33	8	939	665	0.050	33	75	0.1	0.1	5.703	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4 (E)	1041	260	32	1751	0.595	1045	781	2.5	1.5	5.131	A
B - Croudace Access	23	6	1027	952	0.024	23	51	0.0	0.0	3.873	A
C - A4 (W)	801	200	45	1756	0.456	803	1005	1.2	0.8	3.782	A
D - Site Access	28	7	785	744	0.037	28	63	0.1	0.0	5.029	A